



NALIN PAYAKACHAT

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EDUCATION:

PhD in Pharmacy Administration, Purdue University, August 2008

Dissertation Research: Predicting utility values in low vision: Estimation from NEI-VFQ 25.

Advisor: Kent H. Summers, R.Ph., Ph.D.

Resident and Fellow in Pharmacotherapy (Neurology), Khon Kaen University, Thailand, 2001

Researched and received training in drug utilization in adult neurology, with a focus on epilepsy, Parkinson's disease, multiple sclerosis, and hemifacial spasm.

Advisor: Suthipun Jitpimolmard, M.D.

Master of Science in Pharmacology, Mahidol University, Thailand, 1995

Thesis Research: Pharmacokinetics of phenytoin in healthy Thais.

Advisor: Chuthamanee Suthisisang, Ph.D.

Bachelor of Science in Pharmacy, Khon Kaen University, Thailand, 1993

CURRENT POSITION:

Assistant Professor, Division of Pharmaceutical Evaluation and Policy, UAMS College of Pharmacy, August 2008

Research focuses on patient-reported outcomes measures including other health outcomes and policy.

Teach and advise graduate students in the division.

Develop a graduate course on patient-reported outcomes research.

Teach courses related to patient-reported outcomes for PharmD students.

PROFESSIONAL EXPERIENCE:

Graduate research assistant in Pharmacy Practice, Purdue University, August 2007 to July 2008

Database analysis using clinical trial phase I/II data in age-macular degeneration.

Supervisor: Kent H. Summers, R.Ph., Ph.D.

Graduate teaching assistant in Pharmacy Practice, Purdue University, 2004 to July 2007

Coordinated and managed classes of 170 undergraduate pharmacy students.

Pharmacy Intern, St. Elizabeth Medical Center, Lafayette, October 2003 to May 2006 (1,500 hours)

Prepared IV solutions, total/partial parenteral nutrition, and peripheral intravenous chemotherapy drugs

Processed prescription orders into a hospital computer system for in-patient daily dispensing

Supervisor: Donna Giroux, R.Ph.

Research assistant, World Wide Outcomes Research Group, Pfizer Inc., Summer 2006

Researched competitors' glaucoma products and recommended potential outcomes research studies and initiatives.

Supervisor: Marko Mychaskiw, R.Ph, Ph.D.

Clinical pharmacist, Srinagarind Hospital, Khon Kaen University, Thailand, 2001-2002

Consulted staff and medical residents within the neurology unit.

Pharmacy intern, University of Illinois at Chicago Hospital, Chicago, 2001

Two rotations in anticoagulant clinic and neurology clinic (outpatient).

Assistant professor in clinical pharmacy, Khon Kaen University, Thailand, 1998-2003

Lectured 4th and 5th year pharmacy students and graduate students in pharmacotherapy, researched drug utilization, and supervised clinical rotations in pharmacokinetics, acute care, ambulatory care, and the university drug information center.

Lecturer, Faculty of Pharmacy, Silpakorn University, Thailand, 1994-1997

Lectured 3rd and 4th year pharmacy students in pharmacology and toxicology.

RESEARCH EXPERIENCE:

- Emergency Contraception Use among Urban Arkansan Women presented at UAMS Community Women's Clinic: Before and After the Over-the-counter Availability (with Denise Ragland, Pharm.D., CDE), *in progress*
- Effect of Counseling Sessions on Patient Knowledge of Emergency Contraception (with Denise Ragland, Pharm.D., CDE), *in progress*
- Burden of family caregivers of children with craniofacial birth defects on quality of life and its economic impact (with JM Tilford), *in progress*
- Quality indicator measures in mental health care, focusing on depression (with Jeff Pyne), *in progress*
- Measuring quality adjusted life years in children with autism spectrum disorder (with JM Tilford), R01-NIH/MH089466-01, *in progress*
- Methodological Study of Vision-related Quality of Life in Patients with Age-related Macular Degeneration (with AM Pleil), *in progress*

- Ph.D. Dissertation, Predicting Utility Values in Low Vision: Estimation from NEI-VFQ 25.
- Factors Related to Job and Career Satisfaction in Community Pharmacy: Structural Equation Modeling Approach, Purdue University (2007) (with Matthew Murawski, R.Ph., Ph.D.)
- A Model-Based Cost-effectiveness Analysis of Community Pharmacy Diabetes Services: Using Data from the Partner's Project (Type 2 diabetes), Purdue University (2002) (with Matthew Murawski, R.Ph., Ph.D.)
- Oral Drug Responsiveness in Hemifacial Spasm, Srinagarind Hospital, Thailand
- Usefulness of Prednisolone in Multiple sclerosis, Srinagarind Hospital, Thailand
- Assessment of Therapeutic Drug Monitoring Services of Antiepileptics, Srinagarind Hospital, Thailand
- Survey of Drug Information Resources, Drug Information Center, Northeast Thailand
- Survey of Benzodiazepines Prescriptions, Srinagarind Hospital and Central Khon Kaen Hospital, Thailand
- Evaluation of Medical and Pharmaceutical Resources on the Internet in Thailand
- Non-compliance of Hypertensive Out Patients, Srinagarind Hospital, Thailand
- Comparative Bioavailability of Generic Zidovudine and Retrovir 100-, 250-mg in Healthy Thais
- Master Degree Thesis, Pharmacokinetics and Bioavailability of Phenytoin in Healthy Thais

CURRENT TEACHING EXPERIENCES:

- Patient Reported Outcomes Measurements, PHSC5393, Spring 2010 (Sole Instructor)
- Quality of life measurement (2 hours), US Health Care System, PHPR 3412, September 2008. Recipients: 1st and 3rd years PharmD students
- Patient Surveys and Literature Synthesis (1.5 hours), Surveys, Interviews, Focus Groups (3 hours), Sampling Methods (3 hours), Foundations of Pharmaceutical Evaluation and Policy Research Methods, PHSC 5323, October – November 2008. Recipients: Graduate students
- Interpreting Cost Effectiveness Modeling Studies (1.5 hours), Continuing Education Program, October 2008. Recipients: Consulting pharmacists
- Pharmacoeconomics: Quality of life and Utility assessment (1.5 hours), Satisfaction and quality measures (1.5 hours), Evidence-based Medicine and Pharmacoeconomics, PHPR 5642, November 2008. Recipients: 3rd year PharmD students

- Marketing engineering (1 hour weekly), Pharmaceutical Evaluation and Policy. Graduate Seminar. Recipients: Graduate students and faculty

WORKING MANUSCRIPTS:

- Payakachat N, Ragland D, Houston C. Impact of emergency contraception status and unintended pregnancy: Observational data from a routine practice.
- Payakachat N, Pleil A. Comparison of Preference-weighted Scores and Quality of Life Measures in Family Caregivers of Children with Craniofacial Birth Defects

PUBLICATIONS:

- Ragland D, Payakachat N, Hays EB, Banken J, Dajani NK, Ott RE. Depression and Diabetes: Establishing the Pharmacist's Role in Detecting Comorbidity in Pregnant Women. JAPhA Mar/Apr 2010 (Accepted 01/28/2010)
- Payakachat N, Murawski MM, Summers KH. Health utility and economic analysis: Theoretical and practical issues (Editorial). Expert Review of Pharmacoeconomics & Outcomes Research 2009;9(4):289-92.
- Payakachat N, Pleil A, Summers KH, Murawski MM, Anderson J, Jennings K, Thomas III J. Predicting EQ-5D utility scores from the 25-item National Eye Institute Vision Function Questionnaire (NEI-VFQ 25) in patients with age-related macular degeneration. Quality of Life Research 2009;18:801-13. Doi 10.1007/s11136-009-9499-6
- Murawski MM, Payakachat N, Koh-Knox, C. Factors Related to Job and Career Satisfaction in Community Pharmacy: Structural Equation Modeling Approach. Journal of American Pharmacist Association 2008;48(5):610-20.
- Summers KH, Payakachat N. Quality Assessment of Clinical Practice Guidelines. (Editorial). Expert Review of Pharmacoeconomics & Outcomes Research 2006;6(1):1-4.
- Payakachat N, Summers KH, Barbuto JP. A Comparison of Clinical Practice Guidelines in the Initial Pharmacological Management of New-Onset Epilepsy in Adults. Journal of Managed Care Pharmacy 2006;12(1):55-60.
- Foocharoen C, Jitpimolmard S, Payakachat N, Jansoong K, Tiamkao S . Clinical Features of Patients with Hemifacial Spasm. Neurology Journal Thailand 2003;3:70-6.
- Suthisisung J, Payakachat N. Bioavailability of Phenytoin Sodium Capsules Available in Thailand Part I: In vitro Study. Journal of Medical Association of Thailand 1998; 81(1): 58-63
- Suthisisung J, Payakachat N. Bioavailability of Phenytoin Sodium Capsules Available in Thailand Part II: In vivo Study. Journal of Medical Association of Thailand 1998; 81(1): 64-70

- Payakachat N, Charuchinda J. Pharmacology of GABA Receptor. Thai Journal of Pharmacology, 16-17, 1994-1995: 43-53.

REPORTS & COMPLEMENTARY:

- Jitpimolmard S, Payakachat N. Wilson's Disease: A Case Report. Bulletin of the Neurological Society of Thailand 2001; 16(3): 24-9.
- Payakachat N. MSG Symptom Complex. Clinic 2001; 200(7/8): 724-6.
- Chittravas N, Payakachat N, Jitpimolmard S. Bechet's Disease: A Case Report. Bulletin of the Neurological Society of Thailand 2000; 15(4): 87-95.

PRESENTATIONS:

- Payakachat N, Grosse SD, Tilford JM. Comparison of health utility and quality of life measures in family caregivers of children with craniofacial birth defects. The 16th Annual Scientific Meeting. International Society for Quality of Life Research. New Orleans, LA. October 28 – 31, 2009.
- Houston CD, Payakachat N, Ragland D. Impact of emergency contraception status on unintended pregnancy: Observational data from a routine practice. The Arkansas Association of Health-Systems Pharmacists Fall Seminar 2009. Little Rock, AR. October 8 – 9, 2009.
- Payakachat N, Pleil A, Summers KH. How driving and vision affect quality of life in patients with age-related macular degeneration. The 14th International Society for Pharmacoeconomics and Outcomes Research. Orlando, FL. May 15 – 20, 2009.
- Payakachat N, Summers KH, Pleil A. Mapping Between the NEI-VFQ 25 and the EQ-5D Utility Index: Model Comparisons. The 13th International Society for Pharmacoeconomics and Outcomes Research. Toronto, Canada. May 3 – 5, 2008.
- Foocharoen C, Jitpimolmard S, Payakachat N, Jansoong K, Tiamkao S. Clinical Features of Patients with Hemifacial spasm. Evidence-base Management in Neurological Disorders, 4 th Floor Conference Room, Pramongkutklao Vejvidaya Building Pramonykutklao Hospital, 2003.
- Chittravas N, Jitpimolmard S, Payakachat N, Tiamkao S. The Appropriateness of Using Intravenous Phenytoin in Srinagarind hospital. Evidence-base Management in Neurological Disorders, 4 th Floor Conference Room, Pramongkutklao Vejvidaya Building Pramonykutklao Hospital, 2003.
- Paykachat N, Tiamkao S, Jitpimolmard S. Clonazepam in Hemifacial Spasm. The 3rd Bangkok Symposium on Clinical Neurophysiology and 42nd Annual Meeting of the Neurological Society of Thailand. Bangkok, Thailand. March 6-8, 2002.
- Payakachat N, Tiamkao S, Jitpimolmard S. Oral Drug Responsiveness in Hemifacial Spasm. The 6th Annual Meeting of Thai Neuroscience Society. Khon Kaen, Thailand. December 6-7, 2001.

- Payakachat N. Adverse Drug Reaction Monitoring in Medicine Ward, Srinagarind Hospital. The 6th Annual Meeting of Thai Neuroscience Society. Khon Kaen, Thailand. December 6-7, 2001.
- Payakachat N, Suthisisung J. Pharmaceutical Inequivalence of Phenytoin Sodium Capsules Available in Thailand. The 15th Asian Pharmaceutical Associations (FAPA). Bangkok, Thailand. November 15-19, 1994.

BOOK CHAPTERS:

- Chapter 2: Measuring Health Status and Health-related Quality of Life Assessment. In: Understanding Health Outcomes and Pharmacoeconomics. MacKinnon GE, Ph.D., R.Ph, editor. (In progress)
- Bootstrapping, Model Validation, Hypothesis Testing (Statistical Adjustments/Approaches Chapter). United Kingdom, Adaptation of Foreign Data for Local Analysis (Other Countries & Regions Chapter). In: Reliability and Validity of Data Sources for Disease and Health Management. International Society for Pharmacoeconomics and Outcomes Research. (In progress)
- Therapeutic Drug Monitoring of Carbamazepine. In: Chaiyakam A, Preechakul Y, eds. Therapeutic Drug Monitoring. Khon Kaen, Faculty of Pharmaceutical Sciences, 2000: 185-198.
Therapeutic Drug Monitoring of Lithium. In: Chaiyakam A, Preechakul Y, eds. Therapeutic Drug Monitoring. Khon Kaen, Faculty of Pharmaceutical Sciences, 2000: 199-218.
- Clinical Approach in Vertigo for Community Pharmacist. In: Pornanong A, ed. Vertigo. Bangkok, Chulalongkorn University, 2002: 35-46.

PROFESSIONAL ORGANIZATIONS:

- Committee, the Research Abstract Review Committee for the ISPOR 15th Annual International Meeting, May 15-19, 2010, Atlanta, GA
- Committee, the Research Abstract Review Committee for the ISPOR 12th Annual European Congress, October 24-27, 2009 at the Le Palais des Congrès de Paris in Paris, France.
- Committee, the Research Abstract Review Committee (Patient Reported Outcomes Studies) for the ISPOR 2nd Latin America Conference, September 10-12, 2009 at the Sheraton Rio Hotel in Rio de Janeiro, Brazil.
- Committee, the Research Abstract Review Committee (Patient Reported Outcomes Studies) for the ISPOR 14th Annual International Meeting, May 16 – 20, 2009, Orlando, FL.
- Graduate faculty member, UAMS Graduate Council (September 2008 – present)
- Member, ISPOR Health Care Decisions Using Outcomes Research Special Interest Group (HCDUOR) (2006 – present)

- Member, International Society for Pharmacoeconomics and Outcomes Research (2004 – present)
- Member, ISPOR Disease & Health Management Special Interest Group (DHM) (2006 – present)
- Member, Thai Pharmacy Association, Thailand (1995 – present)
- President, Purdue University ISPOR Student Chapter (2006 – 2007)
- President-Elect, Purdue University ISPOR Student Chapter (2005 – 2006)
- Staff, Postgraduate Student Council, Department of Clinical Pharmacy, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand (1998 – 2003)
- Member, North-Eastern Neuroscience Association of Thailand (2001 – 2003)
- Committee, North-Eastern Neuroscience Association of Thailand (2001 – 2003)
- Clinical Pharmacist, Neurology unit, Department of Medicine, Faculty of Medicine, Khon Kaen University, Thailand (2001 – 2002)
- Associate Head of Clinical Pharmacy Department, Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand (2000)
- Staff, Postgraduate Student Council, Faculty of Pharmacy, Silpakorn University, Thailand (1995 – 1997)

AWARDS AND GRANTS

- R01 MH089466-01 Measuring quality adjusted life years in children with autism spectrum disorders (10/01/2009 – 09/30/2011), \$1.1M (Co-I)
- MREA 2010 (UAMS Intramural fund) Intrinsic and extrinsic factors affecting pharmacists' job and career satisfaction (01/1/2010 – 12/31/2010), \$14,313 (PI)
- Contract research funding with Pfizer, Inc. (2007 – 2008), \$56,000
- ISPOR Student Chapter Presidents Service Awards 2006 – 2007
- Research assistantship, School of Pharmacy and Pharmaceutical Sciences, Purdue University (2002, 2007 – 2008)
- Training Grant at UIC Hospital. Awarded by Faculty of Pharmaceutical Sciences, Khon Kaen University, Thailand (2001)
- Research Grant, Research and Developing Institute, Government Pharmaceutical Organization, Thailand (1994 – 1995)
- University Developing Commissions (UDC) Scholarship, Silpakorn University, Thailand (1993 – 1995)

GRANT APPLICATIONS (PENDING):

- ABI 2010 01/01/2010 – 12/31/2010
UAMS intramural fund \$32,000
Title: Long-term Health-related Quality of Life of Survivors with Histories of Head and Neck Cancer and their Caregivers

Role: PI

EDUCATIONAL TRAINING AND PARTICIPATION:

- The Center for Business Intelligence 3rd, 4th, and 5th workshops on Patient-reported outcomes, 2008 - 2009
- Certify attendance and completion of a 50-minute group internet based virtual seminar on ‘Powerful media for educational psychology’ by Wiley Faculty Network[®], John Wiley & Sons, Inc., February 17, 2009
- Certify attendance and completion of a 50-minute group internet based virtual seminar on ‘The millennial student: How today’s students learn’ by Wiley Faculty Network[®], John Wiley & Sons, Inc., March 19, 2009
- Completed 3 workshops presented by the Office of Educational Development for use of Blackboard 8 & Wimba, March 2009
- ISPOR 14th Annual International Meeting, Orlando, FL, May 16-20, 2009
 - ISPOR Short Course on ‘Advanced patient-reported outcomes assessment: Psychometric methods;
 - ISPOR Short Course on ‘Patient-reported outcomes: Item response theory’;
 - ISPOR Short Course on ‘Strategy and guideline for conducting and analyzing patient-reported outcomes research in clinical trials’

RELEVANT SOFTWARE: SAS[®], AMOS[®], SPSS[®], STATA[®]

JOURNAL REVIEWER:

Journal of Managed Care Pharmacy (2006)

Journal of Cataract and Refractive Surgery (2009)

Investigative Ophthalmology & Visual Science (2009)

LANGUAGES: Thai (native), English (fluent)

OTHER: Foreign Pharmacy Graduate Equivalency Examination (FPGEE[®]) – Passed (2003)